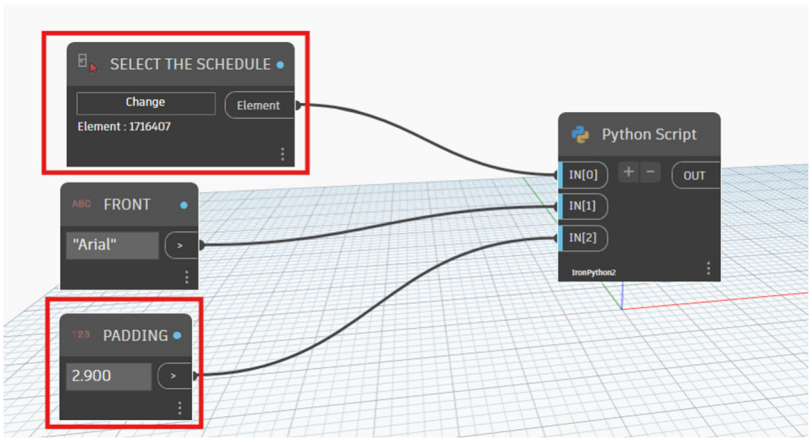
SCHEDULE RESIZER-(P9)

```
import clr
clr.AddReference('System.Drawing')
clr.AddReference('RevitAPI')
clr.AddReference('RevitServices')

from System.Drawing import Graphics, Font, GraphicsUnit, Bitmap, FontStyle
from Autodesk.Revit.DB import *
from RevitServices.Persistence import DocumentManager
from RevitServices.Transactions import TransactionManager

doc = DocumentManager.Instance.CurrentDBDocument

# Unwrap input
input_raw = IN[0] if isinstance(IN[0], list) else [IN[0]]
input_el = UnwrapElement(input_raw[0])

font_name = str(IN[1])
font_size_mm = IN[2]
font_size_pt = font_size_mm * 2.83465

# Fetch the custom padding multiplier from IN[3]
try:
    padding_multiplier = float(IN[3])
except:
    padding_multiplier = 1.25

# Setup Graphics Engine
g = Graphics.FromImage(Bitmap(1, 1))
g.PageUnit = GraphicsUnit.Point

# THE FIX: Create a Standard font for the body, and a Bold font for the headers
standard_font = Font(font_name, font_size_pt)
header_font = Font(font_name, font_size_pt, FontStyle.Bold)

if isinstance(input_el, ScheduleSheetInstance):
    view_schedule = doc.GetElement(input_el.ScheduleId)
    definition = view_schedule.Definition

    table_data = view_schedule.GetTableData()
    section_data = table_data.GetSectionData(SectionType.Body)

    TransactionManager.Instance.EnsureInTransaction(doc)

    # Filter out hidden columns
    field_order = definition.GetFieldOrder()
```

```
    visible_fields = []
    for f_id in field_order:
        field = definition.GetField(f_id)
        if not field.IsHidden:
            visible_fields.append(field)

    for c in range(section_data.NumberOfColumns):
        max_w = 0

        # 1. Measure Header Text (Using the BOLD font + 4 spaces of aggressive padding)
        if c < len(visible_fields):
            header_text = visible_fields[c].ColumnHeading
            if header_text:
                clean_header = str(header_text).replace('\n', ' ').replace('\r', ' ') + "    "
                w = g.MeasureString(clean_header, header_font).Width
                if w > max_w: max_w = w

        # 2. Measure Body Text (Using standard font)
        for r in range(section_data.NumberOfRows):
            cell_text = view_schedule.GetCellText(SectionType.Body, r, c)
            if cell_text:
                clean_cell = str(cell_text).replace('\n', ' ').replace('\r', ' ') + "   "
                w = g.MeasureString(clean_cell, standard_font).Width
                if w > max_w: max_w = w

        # 3. Apply the Custom Multiplier
        final_width = (max_w / 864.0) * padding_multiplier + 0.05

        # Apply the final width
        if c < len(visible_fields):
            visible_fields[c].GridColumnWidth = final_width

    # Force Revit to update graphics
    doc.Regenerate()
    TransactionManager.Instance.TransactionTaskDone()

    OUT = "Success: Headers measured as Bold text. Multiplier used: " + str(padding_multiplier)
else:
    OUT = "Error: Please select the schedule instance on the Sheet."
```